RMS
DYNAMIC TEST SYSTEMS

SW9500 OUR POWERPACKAGE

ELECTRODYNAMIC VIBRATION TEST SYSTEM 100 TO 120 kN

SW9500 Water-cooled
vibration test system series

LOW-MAINTENANCE, ECONOMICAL AND CAN ALSO COPE WITH LARGE TEST SPECIMENS.

RMS supplies vibration test systems with which you can test your products and components for behaviour and reliability. Our systems of the SW9500 series are perfectly suited for testing large format, high mass specimens, e.g. in the development of battery electric vehicles.

The special geometry of the magnetic frame allows a high force of the exciter with minimal energy consumption. The wear-free return spring system requires no rollers or roller-like additives and offers high transverse stiffness despite a displacement amplitude of 76mm pk-pk. Of course, the SW9500 series meets all current standards from the automotive, aerospace and consumer industries.

Designed for continuous use under full load, this series guarantees maximum operational strength and is also particularly low-maintenance. And the components are individually adapted to your requirements. Only with us can you get all systems from A to Z.

THE ADVANTAGES AT A GLANCE:

- up to 120kN S inus / Noise
- up to 320 kN Shock force
- 3,5 m/s for 100g / 11 ms Shocks
- fully automatic
- Center positioning of the pathogen
- ECO-Mode max Energysafing
- complete EnEV2016 and ISO14001
- Energy-efficient and space-saving thanks to water cooling
- Modular & compact design
- with many expansion stages

VIBRATION GENERATOR SW9500

Performance data

	Typ 100	Typ 120
Force vector sine pk [kN]	100	120
Force vector noise rms [kN]	100	120
Force vector Shock pk [kN]	200	320
Frequency Range [Hz]		5/2300
Main resonance [Hz]		2150
Acceleration (Shock/Sine) [m/s²]		1200/1000
Speed (shock/sine) [m/s]		3,5/2
Amplitude (Schock/Sinus) pk-pk [mm]		76/51

Dimensionen

Masse Schwingendes-System (dyn.) [kg]	100
Maximale Zuladung [kg]	1000
Durchmesser Aufspannfläche [mm]	550
Anzahl der Gewindeeinsätze	36
Größe der Gewindeeinsätze [mm]	12
Gesamtgewicht [kg]	8600
Höhe [mm]	1485
Breite [mm]	2060
Tiefe [mm]	1485

AMPLIFIER: TGE 13

Performance data

	Typ 100	Typ 120
Power output [kVA]	104	117
Output current [A] eff.	1040	1170
Output current [A] peak	3480	3920
Output voltage (eff./peak) [V]		100/240
Efficiency [%]		<90
Clock frequency [kHz]		110
Signal-to-noise ratio [dB]		68
Bandwidth (-3dB) [Hz]		3000

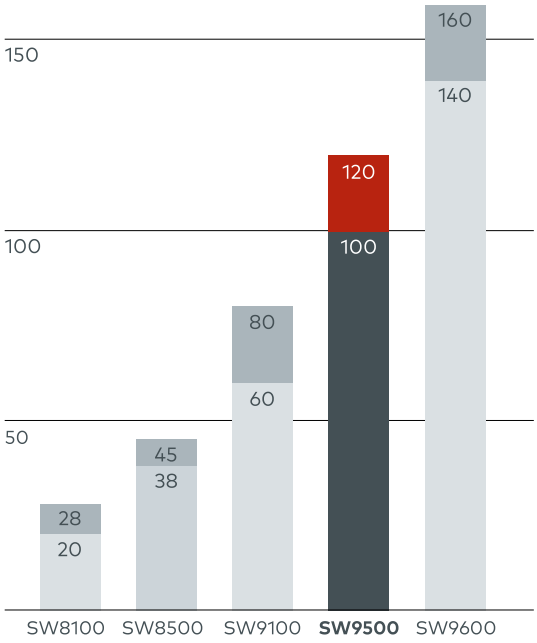
Dimension

Number of cabinets	3	4
Number of power modules	8	9
High [mm]		1980
Width [mm]		2440
Depth [mm]		820
Weight [kg]	1300	1600
Total connected load [kVA]	123	147

COOLING UNITS: SWG771

Engine power [kW]	3
High [mm]	980
Width [mm]	610
Depth [mm]	820
Water quantity ext. [l/min]	86

Force vector sine pk [kN]



Within our portfolio of water-cooled vibration test systems, the SW9500 is positioned in the upper performance range and convinces with its upgradeability - like all our vibration test systems.

Minimum Maximum

YOU CHOOSE THE COMPONENTS AND WE'LL MAKE THEM PERFECT.

We at RMS guarantee the perfect coordination of all components and can thus react flexibly to any of your special requirements. From the first draft via the Development up to the last production step.

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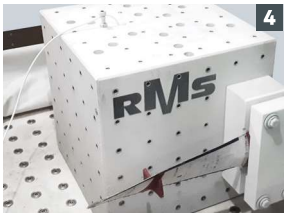

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1 Digital high performance amplifiers TGE
Investment security through modularity and expandability.
Very low-maintenance, durable and compact at the same time.

2 Sliding tables
Can be combined and designed with climatic chamber for LV124.
High precision and low maintenance. Flexibly applicable in the sizes from 600x600 mm to 1200x1200 mm.

3 16-channel controller SWR1500 & test manager SWR1500
Simple operation in combination with high robustness. This team offers the optimal unit for a smooth test operation.

4 Fittings for test specimen admission
Tailor-made fittings specially designed for your requirements, perfectly adapted to the vibration system and your test specimen.

We look forward to your call or visit to our website.

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